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IN THE CLAIMS

This listing of the claim will replace all prior versions and listings of claim in the present application.

Listing of Claims

1. (currently amended) A transmit power controlling method in a code division multiple access communication system which includes a radio base station and a mobile station, said method comprising the steps of:

transmitting, by said radio base station, a transmit power controlling signal for controlling transmit power of said mobile station; and

generating, by said mobile station, a reference ~~values~~ value for calculating a control amount of transmit power of said mobile station based on the transmit power controlling signal received from said radio base station and the receiving quality of the transmit power controlling signal, and generating a variation amount of the transmit power based on said reference value, so that the transmit power of said mobile station is controlled based on the variation amount.

2. (previously presented) The transmit power controlling method in a code division multiple access communication system according to Claim 1, wherein said reference value is generated with a perch channel receiving quality of a signal transmitted from said radio base station also taken into account.

3. (previously presented) The transmit power controlling method in a code division multiple access communication system according to Claim 1, wherein

the receiving quality of a perch channel signal transmitted from said radio base station is compared with the receiving quality of the transmit power controlling signal so that it is determined that a call is cut off when only one of the receiving qualities is deteriorated and it is determined that a receiving condition is no longer proper when the both of the receiving qualities are deteriorated, and in that the reference value is generated based on a result of the determination.

4. (currently amended) The transmit power controlling method in a code division multiple access communication system according to Claim 1, wherein, when an absolute value of the ~~likelihood~~ reference value of said transmit power controlling signal is larger than a predetermined value, an upper limit value and a lower limit value of the transmit power of a mobile station are updated and maintained so that the transmit power of said mobile station is limited between said upper limit value and said lower limit value.

5. (previously presented) The transmit power controlling method in a code division multiple access communication system according to Claim 1, wherein an average value of the transmit power of a mobile station is generated, and that the transmit power of said mobile station is switched based on the size of said reference value so as to be either said generated average transmit power of the mobile station or transmit power of the mobile station that is generated based on said reference value.

6. (previously presented) The transmit power controlling method in a code division multiple access communication system according to Claim 1, wherein an open loop transmit power signal is generated based on the receiving quality or the receiving power of another channel different from a channel being used, and that the transmit power of said mobile station is switched based on the size of said reference value so as to be a transmit power based on the generated open loop transmit power controlling signal or transmit power based on the generated reference value.

7. (previously presented) The transmit power controlling method in a code division multiple access communication system according to Claim 1, wherein said transmit power controlling signal is a signal comprising two values, and that said reference value is calculated so that an absolute value of the reference value would be larger than a predetermined value when the receiving quality is better than a predetermined quality and so that an absolute value of the reference value would be smaller than a predetermined value when the receiving quality is worse than a predetermined quality.

8. (previously presented) The transmit power controlling method in a code division multiple access communication system according to Claim 7, wherein the transmit power is increased when said reference value is greater than or equal to a first reference value,

wherein the transmit power is maintained when said reference value is greater than or equal to a second reference value, and

wherein the transmit power is decreased when said reference value is less than said second reference value.

9. (previously presented) The transmit power controlling method in a code division multiple access communication system according to Claim 7, wherein the transmit power is increased when said reference value is greater than or equal to said first reference value,

wherein the transmit power is toggle-controlled when said reference value is greater than or equal to said second reference value, and

wherein the transmit power is decreased when said reference value is less than said second reference value.

10. (previously presented) The transmit power controlling method in a code division multiple access communication system according to Claim 7, wherein the transmit power is increased when said reference value is greater than or equal to said first reference value, that a variation amount of the transmit power is made to be the power corresponding to said reference value when said reference value is greater than or equal to said second reference value, and

wherein the transmit power is decreased when said reference value is less than said second reference value.

Claim 11 (canceled).

12. (previously presented) A mobile station characterized by comprising:

- receiving means for receiving transmit power controlling information transmitted by a radio base station;
- measuring means for measuring the receiving quality of a wave transmitted by said radio base station;
- reference value generating means for generating a reference value for calculating a control amount of transmit power for said mobile station based on the transmit power controlling information received by said receiving means from said radio base station and the receiving quality measured by said measuring means;
- variation amount generating means for generating a variation amount of the transmit power based on the reference value generated by said reference value generating means; and
- controlling means for controlling the transmit power of a mobile station based on the variation amount generated by said variation amount generating means.

13. (previously presented) The mobile radio station according to Claim 12, further comprising:

- perch channel receiving quality measuring means for measuring the receiving quality of a perch channel signal transmitted by said radio base station,

wherein said reference value generating means generates a reference value with the receiving quality measured by said perch channel signal receiving quality measuring means taken into a consideration.

14. (currently amended)A code division multiple access communication system comprising:

a radio base station; and

a mobile station,

wherein said radio base station comprises:

transmit power controlling information generating means for generating transmit power controlling information for controlling the transmit power of a mobile station, and

transmitting means for transmitting the transmit power controlling information generated by said transmit power controlling information generating means, and

wherein said mobile station comprises:

receiving means for receiving the transmit power controlling information transmitted by said transmitting means,

measuring means for measuring the receiving quality of a wave transmitted by said radio base station,

reference value generating means for generating a reference value for calculating a control amount of transmit power for said mobile station ~~of said transmit power controlling information~~ based on the transmit power controlling information

received by said receiving means and ~~of~~ the receiving quality measured by said measuring means,

variation amount generating means for generating a variation amount of the transmit power based on the reference value generated by said reference value generating means, and

controlling means for controlling the transmit power of a mobile station based on the variation amount generated by said variation amount generating means.

Claims 15-18 (canceled).